

A B S T R A C T

AN APPARATUS AND METHOD FOR VERY HIGH DATA RATE OPTICAL
TRANSMISSION, AND THE USE OF SAID APPARATUS AND SAID
5 METHOD

The invention relates to an apparatus for
transmitting a signal through an optical data
transmission network, the apparatus comprising a pulse
10 emitter (10) and at least one line fiber (12) for
conveying at least one pulse (30) in said line fiber.
The apparatus further comprises a spreader module (14)
for linearly spreading pulses, said spreader module
comprising a propagation medium that is dispersive and
15 linear, said propagation medium presenting accumulated
chromatic dispersion that is high enough to lower the
peak power (P_c) of the pulse to below a predetermined
threshold (S), where a signal above said threshold is
liable to be subjected to non-linear distortion in the
20 line fiber, said spreader module (14) being disposed
between the emitter (10) and the line fiber (12).

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35 Translation of the title and the abstract as published by the PCT Authorities,
possibly after making changes, ex officio, e.g. under PCT Rules 37.2, 38.2, and/or
48.3.